

GGNB: Short Methods Courses & Method Seminars; Extended Methods Courses

Program April - September 2024 (summer semester 2024)

- Registration possible two months before the course month -

[Link to EXA](#)

IMPORTANT:

1) Check the detailed course descriptions in UniVZ or Stud.IP before signing up as some courses require pre-work / follow-up work or have an unusual duration! 2) Participation is binding. Cancellation is only possible via the GGNB Office (NOT via contacting the trainer directly) with a) sick certificate, or b) statement by supervisor for science reasons. If you do not provide this, you will be excluded from courses for the next 12 months, as well as travel grants and other financial support. No exceptions.

By signing up you agree (1) to carefully check in advance whether you will be able to attend the course (e.g. do not register for 2 courses taking place on the same dates - the above mentioned sanctions apply!), (2) to frequently check your student e-mail account, as all information on courses will exclusively be sent to that account; (3) that your name and e-mail address may be forwarded to the course instructor(s) for communication before and after the course; (4) to complete the course evaluation; (5) inform us if you no longer wish to maintain a waiting list position.

| Department/Group | Supervisor(s) | EXA ID | ID | Title of Course | Credits | Status | Date |
|---|---|--------|-------|--|---------|-----------|--|
| Molecular Biology & Genetics | | | | | | | |
| Pöhlmann, Stefan | - | 350058 | A 160 | Molecular Biology of HIV replication and pathogenesis | 1.0 | Presence | Thursdays, starting from 11 April 2024 |
| Pöhlmann, Stefan | Michael Winkler, Markus Hoffmann, Heike Hofmann-Winkler | 340221 | A 171 | Viral transduction systems | 1.5 | Presence | 16-18 Apr 2024 |
| Jakobs, Stefan | Daniel Jans | 340459 | A 260 | STED nanoscopy and immunolabeling | 1.0 | Presence | 16-17 Apr 2024 |
| Cell Biology & Microbiology, Imaging | | | | | | | |
| Mitkovski, Mišo | - | 340066 | A 098 | Introduction to image processing in biology with ImageJ and FIJI | 1.5 | ONLINE | 10-12 Apr 2024 |
| Tsukanov, Roman | Samrat Basak | 340406 | A 244 | Super-resolution microscopy with DNA-PAINT and dSTORM. Fluorescence lifetime single-molecule localization microscopy (FL-SMLM) | 1.0 | Hybrid | 30-31 May 2024 |
| Richter-Dennerlein, Ricarda | Marleen Heinrichs, Venkatapathi Challa | 340415 | A 246 | Investigating macromolecular complexes by density gradient centrifugation | 1.0 | Presence | 7-8 May 2024 |
| Roos, Christian | Liye Zhang, Lakshmi Seshadri | 340322 | A 291 | Tracing demographic histories from NGS data | 1.0 | Presence | 13-14 May 2024 |
| Roos, Christian | Liye Zhang, Lakshmi Seshadri | 340323 | A 292 | Tracing selective sweeps in NGS data | 1.0 | CANCELLED | 27-28 May 2024 |
| Tsukanov, Roman | Samrat Basak | 340660 | A 297 | DNA Nanotechnology: Applications in Super-resolution Microscopy and Beyond | 0.5 | CANCELLED | 12 Jun 2024 |
| Steinem, Claudia | Heike Conrad | 340496 | A 276 | Hertha Sponer College lecture series | 0.5 | Presence | every other Tuesday; registration via heike.conrad@med.uni-goettingen.de |
| Bouter, Yvonne | - | 340022 | A 301 | Translational Imaging in Neurodegenerative Diseases: From Animal Models to Clinical Practice | 1.0 | Presence | 29-30 Aug 2024 |

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|---|--|--------|-------|--|---------|-----------|---|
| Biochemistry | | | | | | | |
| Tittmann, Kai | Fabian Rabe v. Pappenheim | 340018 | A 064 | Principles and methods of protein purification by chromatography | 1.0 | Presence | 6-7 May 2024 |
| Molecular & Cellular Neuroscience, Electrophysiology | | | | | | | |
| Pardo, Luis | Walter Stühmer | 340040 | A 063 | Patch clamp | 1.5 | Presence | tba |
| Rhee, Jeong Seop | - | 340038 | A 096 | Nerve cell culture and patch-clamp recordings from nerve cells | 1.0 | Presence | 8-9 Apr 2024 |
| Wichmann, Carolin | Julius Bahr | 340196 | A 149 | Basic methods of transmission electron microscopy - from tissue preparation to 3D reconstruction | 1.0 | CANCELLED | June/July 2024 |
| Fiala, André | - | 340319 | A 216 | Neuronal circuit dissection in Drosophila | 1.5 | CANCELLED | 17-19 Apr 2024 |
| Möbius, Wiebke | - | 340328 | A 228 | A practical introduction into electron microscopy | 1.0 | Presence | 22-23 Apr 2024 |
| Gärtner, Jutta | Susann Diegmann, Kolja Meier | 340456 | A 233 | Next Generation Sequencing to identify the disease gene in unclear neurogenetic disorders | 1.0 | CANCELLED | 17-18 Jun 2024 |
| Milosevic, Ira / Carter, Brett | - | 340095 | E 003 | ENI Electrophysiology Training (ENI-ELECTRAIN) | 4.0 | Presence | 27-31 May 2024 |
| Theoretical, Systems & Behavioral Neuroscience | | | | | | | |
| Wolf, Fred | Priesemann, Viola | 350036 | A 022 | Theoretical and Computational Neuroscience: Collective Dynamics of Biological Neural Networks II | 3.0 | Presence | Fridays, starting from 12 Apr 2024 |
| Antal, Andrea | Strenzke, Nicola / Hoch, Gerhard | 340054 | A 041 | Auditory and visual evoked potentials | 1.0 | CANCELLED | April 2024 |
| Antal, Andrea | - | 340056 | A 048 | Transcranial magnetic- and electrical stimulation | 1.0 | CANCELLED | May 2024 |
| Gail, Alexander | - | 340043 | A 073 | Introduction to Matlab in Systems Neuroscience | 1.0 | Presence | May/June 2024 |
| Treue, Stefan / Gail, Alexander | Treue, Stefan / Gail, Alexander / Cliodhna Quigley, Schöberl, Tobias | 340231 | A 168 | Visual psychophysics - From theory to experiment | 1.0 | Presence | June/July 2024 |
| Structural Biology | | | | | | | |
| Bennati, Marina | Luming Yang, Alexander van der Ham | 340055 | A 003 | EPR-Spectroscopy | 1.5 | Presence | either 15-17 May OR 29-31 May 2024 (tbd with registered participants) |
| Ficner, Ralf | Neumann, Piotr | 340130 | A 103 | X-ray crystallography | 2.5 | CANCELLED | 8-12 Apr 2024 |
| Hillen, Hauke | - | 340500 | A 281 | Characterization and quantification of biomolecular interactions | 0.5 | Presence | 9 Apr 2024 |
| Biophysics, Bioinformatics and Statistics | | | | | | | |
| Grubmüller, Helmut / de Groot, Bert | Chengong Hui, Reinier de Vries | 340387 | A 024 | Introduction to Molecular Dynamic Simulations | 1.0 | Presence | August 2024 |
| de Groot, Bert/ Wörgötter Florentin | de Groot, Bert/ Wörgötter Florentin | 340166 | A 025 | Current Topics in Biophysics and Complex Systems – Lecture Series | 1.0 | Presence | Mondays, starting from April 2024 |
| Friede, Tim | Röver, Christian | 340061 | A 100 | Basic statistics for graduate students in the life sciences - an introduction using R | 1.0 | Presence | 16 Apr - 7 May 2024 |
| Steinem, Claudia | Sara Drechsler, Laura Brinkmann | 340067 | A 133 | Using biosensors to study analyte-ligand interactions: basic principles and applications | 0.5 | Presence | 19 Apr 2024 |

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| Janshoff, Andreas | Amaury Perez Tirado, Tabea Oswald | 340235 | A 169 | Atomic Force Microscopy versatile tools to study surfaces and surface properties | 0.5 | Presence | 13 Sep 2024 |
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| Biophysics, Bioinformatics and Statistics | | | | | | | |
| Grubmüller, Helmut / de Groot, Bert | - | 340204 | A 170 | Biomolecular Physics and Simulations | 2.0 | Presence | Mondays, starting from 8 April 2024 |
| Hörandl, Elvira | Natscha Wagner | 340247 | A 188 | Introduction into the bioinformatic analysis of next generation sequence data | 1.0 | Presence | 19-21 Aug 2024 |
| Gollisch, Tim | Shashwat Sridhar, Robert Mihai Haret | 340455 | A 258 | Introduction to neural data analysis with Python | 1.5 | Presence | 24-26 Apr 2024 |
| Jeschke, Markus | - | 340464 | A 265 | Build your own experiments with Arduinos | 1.5 | Presence | 17-19 Apr 2024 |
| Wulf, Gerald | Kristian Thomson | 340632 | A 295 | Go With the Flow – An Introduction to Flow Cytometry and its Applications in Cancer and Immunology Research | 1.0 | Presence | 20 & 25 Sep 2024 |
| Walter, Lutz | Laura Ahumada Arranz, Charlotte Höltermann | 340671 | A 298 | Bioinformatics of high-throughput NGS: single-cell RNA-seq and Oxford Nanopore third-generation sequencing technologies | 1.0 | Presence | 15-16 May 2024 |
| Großhans, Jörg | Roya Abbaszadeh | 340000 | A 299 | Single-cell RNA-seq Analysis Using Python | 2.0 | ONLINE | 11-14 Jun 2024 |
| Vertebrate Animal Models | | | | | | | |
| Weber, Martin | Jasmin Ochs | 340645 | A 296 | Animal Models of Multiple Sclerosis I | 1.0 | Presence | 6-7 May 2024 |
| Weber, Martin | Jasmin Ochs | 340650 | A 296 | Animal Models of Multiple Sclerosis II | 1.0 | Presence | 10-11 Jun 2024 |
| Bouter, Yvonne | - | 340021 | A 300 | Animal models of Alzheimer's Disease | 1.0 | Presence | 9-10 Sep 2024 |